

Food and Drug Administration 10903 New Hampshire Avenue Document Control Center – WO66-G609 Silver Spring, MD 20993-0002

August 15, 2014

Trudell Medical International Mr. Darryl Fischer Associate Director, Global Regulatory Affairs 725 Third Street London, Ontario N5V 5G4 CANADA

Re: K140919

Trade/Device Name: RespiConnectTM Adapter

Regulation Number: 21 CFR 868.5630

Regulation Name: Nebulizer (Direct Patient Interface)

Regulatory Class: II Product Code: CAF Dated: July 14, 2014 Received: July 16, 2014

Dear Mr. Fischer:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Tejashri Purohit-Sheth, M.D. Clinical Deputy Director

Tejashri Purohit-Sheth, M.D. Clinical Deputy Director DAGRID/ODE/CDRH FOR

Erin I. Keith, M.S.
Director
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Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

Indications for Use

510(k) Number:	K140919			
Device Name:				
Bovios Ivamo.				
Indications for U	lse:			
SOFT MIST INF aerosol medicat	IALERS to fice to the second in the second i	acilitate the anically ven	to be used with RESPIM delivery of bronchodilato tilated patients. The sing it in the inspiratory limb o	r le
Prescription Use: (Part 21 CFR 801 Sub	opart D)	AND/OR	Over-The-Counter Use(21 CFR 801 Subpart C)	
CONCURRE	NCE OF CDBL	A OFFICE OF	DEVICE EVALUATION (ODE)	

2014.08.15

Page 1 of __1_

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Prepared: 21 March 2014 / Amended 15 Aug 2014

510(k) Owner Trudell Medical International

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CANADA

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Device Name

Proprietary RespiConnect Adapter

Common/Classification Accessory to a nebulizer

Product Code CAF

Classification Regulation 868.5630

Predicate Device(s) 510(k) Number	Trade/Model Name	Manufacturer
K926301	Ace Cloud Enhancer	DHD Diemolding,
		Healthcare Division

Device Description

The RespiConnect Adapter is a single-patient use device intended to provide a self-sealing access port in a ventilator circuit to facilitate the administration of *Respimat*TM Soft Mist inhaler medication to mechanically ventilated patients.

Intended Use

The RespiConnect Adapter is designed to be used with *RESPIMAT*TM SOFT MIST INHALERS to facilitate the delivery of bronchodilator aerosol medication to mechanically ventilated patients. The single patient use adapter is intended to be left in the inspiratory limb of a 22 mm ventilator circuit. The intended use does not differ significantly from that of the predicate device detailed below. The predicate device below is designed to assist with the delivery of aerosolized medications from metered dose inhaler canisters to a mechanically ventilated patient.

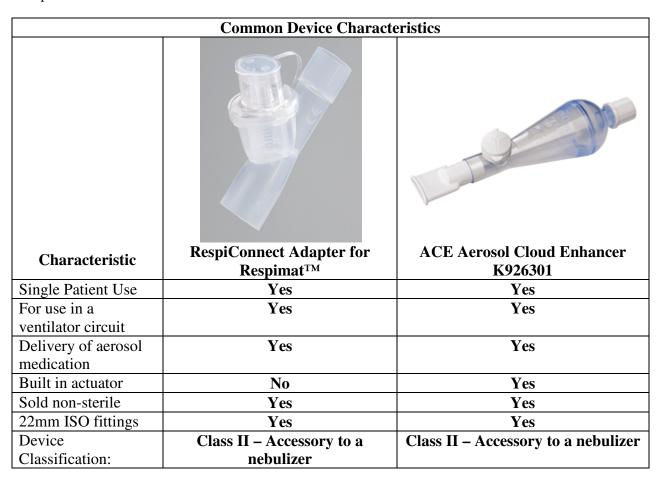
Ace Aerosol Cloud Enhancer, K926301

- Manufactured from plastic
- 22mm OD and ID fittings to accommodate 22 mm breathing circuit connections
- Used to administer aerosolized medication to a mechanically ventilated patient



Technological Characteristic Comparison to Predicate Device

The table below presents some of the common device characteristics exhibited by the Class II device and the predicate device.



Relevant differences in the operating principles of the Adapter for RespimatTM and the predicate device;

- RespiConnect Adapter is used only with the RespimatTM Soft Mist Inhaler (SMI) device.
- RespiConnect Adapter has a self-sealing port to maintain circuit integrity once the RespimatTM device is removed. The ACE device must be capped to prevent circuit leakage if it remains in the circuit after use.
- RespiConnect Adapter remains in the circuit once installed, and is discarded with the circuit upon circuit change. The ACE device is not recommended to remain in the circuit once in place, and may be removed after each use.
- RespiConnect Adapter has a molded arrow to indicate direction of air flow. The ACE device is not labeled with the direction of air flow.

• RespiConnect Adapter is not patient-orientation sensitive while medication is being delivered. The ACE device and pMDI is patient-orientation sensitive during aerosol delivery, as the pMDI must be oriented in the upright position during firing to ensure the labeled dosage of drug is properly delivered.

Non-Clinical Test Summary

Mechanical testing was conducted to characterize the operating parameters (leakage) of the RespiConnect Adapter device. The results (in Section 11, Attachment 4) demonstrate that the RespiConnect Adapter device performs satisfactorily, and does not raise any new safety or efficacy related issues.

There are no direct patient contacting components of the RespiConnect Adapter device. However, the materials of construction were tested for biocompatibility and do meet the requirements of ISO 10993-1:2009, Biological evaluation of medical devices.

Biological evaluation of the RespiConnect Adapter device was classified according to the requirements within ISO 10993-1 as follows;

- Category: Surface device
- Contact: Mucosal membranes
- Contact Duration: B Prolonged Exposure (24hrs to 30 days)
- Evaluation Testing for Biological Effect
 - o Cytotoxicity according to ISO 10993-5
 - o Sensitization according to ISO 10993-10
 - o Irritation or Intracutaneous Reactivity according to ISO 10993-10

Aerosol testing was performed to characterize cascade impactor performance data for total delivered dose, respirable fraction and respirable particle mass using the subject device. Review of the performance results indicate no new safety or efficacy issues were raised as a result of the testing. Expected performance results have been added to the instructions for use for the RespiConnect Adapter for user reference.

Clinical Performance Summary

Not applicable, the determination of substantial equivalence is not based on Clinical Performance Data.

Conclusions from Testing

The RespiConnect Adapter device has been compared against a currently marketed (predicate) device for the determination of substantial equivalency. The RespiConnect Adapter device and the predicate device share:

- common indications for use for mechanically ventilated patients
- usage environments
- both devices are single patient use
- both devices are sold non-sterile

The RespiConnect Adapter device raises no new issues regarding safety or efficacy.